IN THE UNITED STATES PATENT & TRADEMARK OFFICE

ATTORNEY DOCKET NUMBER: 200308070-3

IN RE APPLICATION OF: U.S. Patent No. 7,006,698
USPTO CONFIRMATION CODE: 5879
APPLICATION NO.: 10/721,947
FILED: Nov. 25, 2003
EXAMINER: Wenpeng Chen
GROUP ART UNIT: 2625
FOR: METHOD AND APPARATUS FOR COMPRESSING A VIDEO IMAGE

37 CFR 1.322 & 37 CFR 1.323 REQUEST FOR CERTIFICATE OF CORRECTION

HONORABLE COMMISSIONER OF PATENTS & TRADEMARKS

Sir:

The following is a request for a certificate of correction in Serial Number 10/721,947, now Patent Number 7,006,698.

A certificate of correction under 35 USC 254 is respectfully requested in the above-identified patent.

fee is red	quired, please charge the amount to Deposit Account No. 082025.
o our D	All errors were the fault of the applicant and, accordingly, please charge \$100.00 eposit Account No. 082025. In the event that a further fee is required, please the amount to the same Deposit Account.
	The errors were the fault of both the applicant and USPTO and, accordingly, harge \$100.00 to our Deposit Account No. 082025. In the event that a further fe
s requir	ed, please charge the amount to the same Deposit Account.

All errors were the fault of the USPTO, no fee required. In the event that a further

The exact locations where the errors appear in the patent and patent application are as follows:

On the face page, in field (75), in "Inventors", in column 1, lines 1-8, delete "Matthew James Adiletta, Worcester, MA (US); King-Wai Chow, Marlboro, MA (US); Romel Williams Ho, Marlborough, MA (US); Robert Clint Rose, Hudson, MA (US); William Ralph Wheeler, Southborough, MA (US); Subramania Iyer Sudharsanan, San Jose, CZ (US)" and insert - - King-Wai Chow, Marlborough, MA (US); Robert Clint Rose, Hudson, MA (US) - -, therefor. (Amendment after Notice of Allowance filed Jul. 26, 2005, page 5, lines 9-10)

On the face page, in field (60), under "Related U.S. Application Data", in column 1, line 4, delete "6,101,275" and insert - 6,101,276 --, therefor. (Examiner's amendment dated Jun. 27, 2005, page 2, line 11)

On the face page, in field (57), under "Abstract", in column 2, lines 1-14, delete "An apparatus and method for performing two-pass real time video compression is provided. Tactical decisions such as encoding and quantification values are determined in software, whereas functional execution steps are performed in hardware. By appropriately apportioning the tasks between software and hardware, the benefits of each type of processing are exploited, while minimizing both hardware complexity and data transfer requirements. One key concept that allows the compression unit to operate in real time is that the architecture and pipe lining both allow for B frames to be executed out of order. By buffering B frames, two-pass motion estimation techniques can be performed to tailor bit usage to the requirements of the frame, and therefore provide a more appealing output image." and insert - - Method and apparatus for compressing video images are provided. A difference value from a current image and a prior image is calculated and compared against a variable adaptive threshold. If the calculated difference value is less than the variable adaptive threshold, the difference value is subtracted from the variable adaptive threshold to produce a new variable adaptive threshold level, and the video signal is deleted. Otherwise the variable adaptive threshold is reset to a predetermined beginning value, and the video signal is sent to an encoding and transmitting module. - -, therefor.

(Amendment to Abstract filed Dec. 13, 2004, page 9, lines 5-10)

In column 1, line 25, delete "VWR," and insert - VCR, -, therefor. (Specification filed on Nov. 25, 2003, page 1, line 14)

In column 2, line 22, delete "(DC)," and insert -- (MC), --, therefor. (Specification filed on Nov. 25, 2003, page 3, line 5)

In column 2, line 24, delete "(DUCT)" and insert -- (DCT) --, therefor. (Specification filed on Nov. 25, 2003, page 3, line 7)

In column 2, line 42, delete "BC2," and insert -- B2, --, therefor. (Specification filed on Nov. 25, 2003, page 3, line 21)

In column 2, line 64, delete "BC2" and insert -- B2 --, therefor. (Specification filed on Nov. 25, 2003, page 4, line 5)

In column 3, line 51, delete "pipeline" and insert - - pipelined - -, therefor. (Specification filed on Nov. 25, 2003, page 5, line 15)

In the specification, delete all occurrences of "quantification" and insert - - quantization --, therefor. (Specification filed on Nov. 25, 2003)

In column 5, line 2, delete "VCD" and insert - VCDU - -, therefor. (Specification filed on Nov. 25, 2003, page 7, line 19)

In column 5, line 28, delete "DUCT" and insert - - DCT -, therefor. (Specification filed on Nov. 25, 2003, page 8, line 8)

In column 7, line 44, delete "P4 B3" and insert - - P4 B5 - -, therefor. (Specification filed on Nov. 25, 2003, page 11, line 25)

In column 13, line 35, delete "MC" and insert -- DC --, therefor. (Specification filed on Nov. 25, 2003, page 21, line 5)

In column 13, line 37, delete "MC" and insert - DC - -, therefor. (Specification filed on Nov. 25, 2003, page 21, line 6)

In column 13, line 43, delete "Intra_MC" and insert - Intra_DC - -, therefor. (Specification filed on Nov. 25, 2003, page 21, line 10)

In column 13, line 61, delete "MC" and insert - DC - -, therefor. (Specification filed on Nov. 25, 2003, page 21, line 19)

In column 14, line 12, delete "MC" and insert - - DC - -, therefor. (Specification filed on Nov. 25, 2003, page 22, line 5, after "The Backward")

In column 14, line 13, delete "MC" and insert - - DC --, therefor. (Specification filed on Nov. 25, 2003, page 22, line 5, before "components")

In column 14, line 43, delete "MC" and insert - - DC - -, therefor. (Specification filed on Nov. 25, 2003, page 22, line 23)

In column 16, line 52, delete "DUCT" and insert - - DCT -, therefor. (Specification filed on Nov. 25, 2003, page 26, line 11)

In column 16, line 53, delete "DUCT" and insert - - DCT -, therefor. (Specification filed on Nov. 25, 2003, page 26, line 12)

In column 20, line 16, delete "S" and insert - - S₁ --, therefor. (Specification filed on Nov. 25, 2003, page 31, line 25)

In column 22, line 33, in equation 7, delete " $d=|\nabla_{\overline{\chi}}(i)-\nabla_{\overline{\chi}}(0)|+|\nabla_{\overline{\chi}}(i)-\nabla_{\overline{\chi}}(0)|$, and insert . . $d=|\nabla_{\overline{y}}(i)-\nabla_{\overline{y}}(0)|+|\nabla_{\overline{\chi}}(i)-\nabla_{\overline{\chi}}(0)|$. . , therefor. (Specification filed on Nov. 25, 2003, page 35, line 13)

In column 27, line 39, in equation 9A, delete "2(y+1)uIT" and insert - - 2(y+1)vII - -, therefor.

(Specification filed on Nov. 25, 2003, page 43, line 19)

In column 27, line 45, in equation 9B, delete " $2(v+1)v\Pi$ " and insert -- $2(y+1)v\Pi$ --, therefor. (Specification filed on Nov. 25, 2003, page 43, line 21)

In column 27, line 52, delete "IMCT" and insert - - IDCT - -, therefor. (Specification filed on Nov. 25, 2003, page 43, line 24)

In column 27, line 62, delete "MC" and insert - DC - -, therefor. (Specification filed on Nov. 25, 2003, page 44, line 7)

In column 38, line 51, delete "IMCT" and insert -- IDCT --, therefor. (Specification filed on Nov. 25, 2003, page 61, line 22)

In column 39, line 8, delete "pipeline" and insert - - pipelined - -, therefor. (Specification filed on Nov. 25, 2003, page 62, line 9)

In column 39, line 21, delete "pipeline" and insert - - pipelined - -, therefor. (Specification filed on Nov. 25, 2003, page 62, line 18)

In column 39, line 64, delete "Pa." and insert - - P4. - -, therefor. (Specification filed on Nov. 25, 2003, page 63, line 22)

In column 43, line 32, delete "T11," and insert - T10, - -, therefor. (Specification filed on Nov. 25, 2003, page 69, line 13)

In column 45, line 20, delete "MCT" and insert - DCT - , therefor. (Specification filed on Nov. 25, 2003, page 72, line 13)

In column 45, line 26, delete "MCT" and insert - DCT - , therefor. (Specification filed on Nov. 25, 2003, page 72, line 18)

In column 51, line 56, delete "pipeline" and insert - - pipelined - -, therefor. (Specification filed on Nov. 25, 2003, page 82, line 22)

In column 51, line 59, delete "pipeline" and insert - - pipelined - -, therefor. (Specification filed on Nov. 25, 2003, page 82, line 24)

In column 53, line 35, delete "MC" and insert - DC - -, therefor. (Specification filed on Nov. 25, 2003, page 85, line 14)

In column 54, line 25, delete "pipeline" and insert -- pipelined --, therefor. (Specification filed on Nov. 25, 2003, page 86, line 25)

In column 54, line 28, delete "pipeline" and insert - pipelined - -, therefor. (Specification filed on Nov. 25, 2003, page 86, line 28, before "stage.")

In column 54, line 29, delete "pipeline" and insert - - pipelined - -, therefor. (Specification filed on Nov. 25, 2003, page 86, line 28, before "divider")

In column 54, line 31, delete "pipeline" and insert - pipelined - -, therefor. (Specification filed on Nov. 25, 2003, page 86, line 30)

In column 55, line 21, delete "pipeline" and insert - - pipelined - -, therefor. (Specification filed on Nov. 25, 2003, page 88, line 10)

In column 59, line 37, delete ""001111s"." and insert - "00111s". - -, therefor. (Specification filed on Nov. 25, 2003, page 95, line 5)

In column 60, lines 11-12, delete "0101001111" and insert - - 01010 001111 - -, therefor.

(Specification filed on Nov. 25, 2003, page 96, line 4)

In column 64, line 51, delete "Y<Be>" and insert -- Y<B3> --, therefor. (Specification filed on Nov. 25, 2003, page 103, line 14)

In column 65, line 19, delete "Y<Be>" and insert -- Y<B3> --, therefor. (Specification filed on Nov. 25, 2003, page 104, line 8)

In column 66, line 49, delete "PCIM" and insert -- PCITM --, therefor. (Specification filed on Nov. 25, 2003, page 106, line 16)

In column 66, line 55, delete "PCIM" and insert -- PCITM --, therefor. (Specification filed on Nov. 25, 2003, page 106, line 21)

In column 67, line 4, delete "PCITM" and insert -- PCITM --, therefor. (Specification filed on Nov. 25, 2003, page 107, line 1)

In column 67, line 11, delete "PCIM" and insert -- PCITM --, therefor. (Specification filed on Nov. 25, 2003, page 107, line 6)

In column 67, line 42, delete "PCIM" and insert -- PCITM --, therefor. (Specification filed on Nov. 25, 2003, page 107, line 29)

In column 68, line 8, delete "PCIM" and insert -- PCITM --, therefor. (Specification filed on Nov. 25, 2003, page 108, line 22)

In column 71, line 23, delete "pipeline" and insert - pipelined - -, therefor. (Specification filed on Nov. 25, 2003, page 113, line 31)

The requested corrections are attached on Form PTO 1050.

Respectfully Submitted

Name: Kevin M. Hart Registration No.: 36,823

Attorney/Agent of Record

HEWLETT-PACKARD COMPANY Intellectual Property Administration P.O. Box 272400 Fort Collins, Colorado 80527-2400

PATENT NO. : 7,006,698

Page 1 of 7

APPLICATION NO.: 10/721,947

ISSUE DATE: Feb. 28, 2006

INVENTOR(S) : Matthew James Adiletta, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the face page, in field (75), in "Inventors", in column 1, lines 1-8, delete "Matthew James Adiletta, Worcester, Ma (US); King-Wai Chow, Marlboro, MA (US); Samuel Williams Ho, Marlborough, MA (US); Robert Clint Rose, Hudson, MA (US); William Ralph Wheeler, Southborough, MA (US); Subramania Iyer Sudharsanan, San Jose, CZ (US)" and insert -- King-Wai Chow, Marlborough, MA (US); Robert Clint Rose, Hudson, MA (US) --, therefor.

On the face page, in field (60), under "Related U.S. Application Data", in column 1, line 4, delete "6,101,275" and insert - - 6,101,276 - -, therefor.

On the face page, in field (57), under "Abstract", in column 2, lines 1-14, delete "An apparatus and method for performing two-pass real time video compression is provided. Tactical decisions such as encoding and quantification values are determined in software, whereas functional execution steps are performed in hardware. By appropriately apportioning the tasks between software and hardware, the benefits of each type of processing are exploited, while minimizing both hardware complexity and data transfer requirements. One key concept that allows the compression unit to operate in real time is that the architecture and pipe lining both allow for B frames to be executed out of order. By buffering B frames, two-pass motion estimation techniques can be performed to tailor bit usage to the requirements of the frame, and therefore

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This collection of information is required by 37 C/R3 1.332, and 1.325, and 1.324. The information is required to obtain or riginite a bunefit by the public which is to file fixed by the USPTO per received as application. Collectionships is governed to by \$1.05 C.12 and \$3 of C/R 1.4. This collection is entitiated to take 1.0 hours to complete inclinating appropriate, and informating the completed application form to the USPTO. Time will very depending upon the individual cent. Any comments or the amount of time very require for complete this form and city angestories, the contributed in the product of the second contributed to the contributed to the contributed in the contributed in the contributed in the contributed to the contributed to the contributed in the contributed in the contributed in the contributed to the contributed in the

Page 2 of 7

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provide a more appealing output image." and insert - - Method and apparatus for compressing video images are provided. A difference value from a current image and a prior image is calculated and compared against a variable adaptive threshold. If the calculated difference value is less than the variable adaptive threshold, the difference value is subtracted from the variable adaptive threshold to produce a new variable adaptive threshold level, and the video signal is deleted. Otherwise the variable adaptive threshold is reset to a predetermined beginning value, and the video signal is sent to an encoding and transmitting module. --, therefor.

In column 1, line 25, delete "VWR," and insert - - VCR, - -, therefor.

In column 2, line 22, delete "(DC)," and insert - - (MC), - -, therefor.

In column 2, line 24, delete "(DUCT)" and insert - - (DCT) - -, therefor.

In column 2, line 42, delete "BC2," and insert - - B2, - -, therefor.

In column 2, line 64, delete "BC2" and insert - - B2 - -, therefor.

In column 3, line 51, delete "pipeline" and insert -- pipelined --, therefor.

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Commissioner for Perent, P.O. Box 1454, Alexandra, VA. 22133-1449.

PATENT NO. • 7.006.698

Page 3 of 7

APPLICATION NO.: 10/721.947

ISSUE DATE: Feb. 28, 2006

INVENTOR(S) : Matthew James Adiletta, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below;

In the specification, delete all occurrences of "quantification" and insert - - quantization - -, therefor.

In column 5, line 2, delete "VCD" and insert - - VCDU - -, therefor.

In column 5, line 28, delete "DUCT" and insert - - DCT - -, therefor.

In column 7, line 44, delete "P4 B3" and insert - - P4 B5 - -, therefor,

In column 13, line 35, delete "MC" and insert - - DC - -, therefor,

In column 13, line 37, delete "MC" and insert - - DC - -, therefor.

In column 13, line 43, delete "Intra MC" and insert - - Intra DC - -, therefor.

In column 13, line 61, delete "MC" and insert - - DC - -, therefor.

In column 14, line 12, delete "MC" and insert - - DC - -, therefor,

In column 14, line 13, delete "MC" and insert - - DC - -, therefor.

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PATENT NO. : 7.006.698 Page 4 of 7

APPLICATION NO.: 10/721.947

ISSUE DATE : Feb. 28, 2006

INVENTOR(S) : Matthew James Adiletta, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In column 14, line 43, delete "MC" and insert - - DC - -, therefor,

In column 16, line 52, delete "DUCT" and insert - - DCT - - therefor

In column 16, line 53, delete "DUCT" and insert - - DCT - - therefor.

In column 20, line 16, delete "S" and insert - - S1 - -, therefor.

In column 22, line 33, in equation 7, delete " $d=|v_{\overline{x}}(i)-v_{\overline{x}}(0)|+|v_{\overline{x}}(i)-v_{\overline{x}}(0)|$ " and insert . . $d=|v_{\overline{y}}(i)-v_{\overline{y}}(0)|+|v_{\overline{x}}(i)-v_{\overline{x}}(0)|$. . . , therefor.

In column 27, line 39, in equation 9A, delete "2(y+1)uII" and insert - ~ 2(v+1)vII - ~, therefor.

In column 27, line 45, in equation 9B, delete "2(v+1)vII" and insert - - 2(y+1)vII - -, therefor.

In column 27, line 52, delete "IMCT" and insert - - IDCT - -, therefor.

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This collection of information is required by 37 CFR 1.322, and 1.323, and 1.324. The information is required to obtain up retain a benefit by the public which is to file (and by the USFTO to process) an application. Confidentiality is governed by 35 U.S.C 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering. preparing, and submitting the completed application form to the LISPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Denarquent of Commerce. PO Box 1450, Alexandria, VA 22312-1450, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS, SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patent, P.O. Box 1450, Alexandria, VA 22313-1458.

Page 5 of 7

PATENT NO. : 7,006,698

APPLICATION NO.: 10/721,947

ISSUE DATE: Feb. 28, 2006

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It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In column 27, line 62, delete "MC" and insert - - DC - -, therefor.

In column 38, line 51, delete "IMCT" and insert - - IDCT - -, therefor,

In column 39, line 8, delete "pipeline" and insert - - pipelined - -, therefor.

In column 39, line 21, delete "pipeline" and insert - - pipelined - -, therefor,

In column 39, line 64, delete "Pa." and insert - - P4. - -, therefor.

In column 43, line 32, delete "T11," and insert - - T10, - -, therefor.

In column 45, line 20, delete "MCT" and insert -- DCT --, therefor.

In column 45, line 26, delete "MCT" and insert - - DCT - -, therefor.

In column 51, line 56, delete "pipeline" and insert - - pipelined - -, therefor.

In column 51, line 59, delete "pipeline" and insert - - pipelined - -, therefor.

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In column 53, line 35, delete "MC" and insert - - DC - -, therefor,

In column 54, line 25, delete "pipeline" and insert - - pipelined - -, therefor.

In column 54, line 28, delete "pipeline" and insert - - pipelined - -, therefor.

In column 54, line 29, delete "pipeline" and insert - - pipelined - -, therefor.

In column 54, line 31, delete "pipeline" and insert -- pipelined --, therefor.

In column 55, line 21, delete "pipeline" and insert - - pipelined - -, therefor.

In column 59, line 37, delete ""001111s"," and insert - - "00111s", - -, therefor.

In column 60, lines 11-12, delete "0101001111" and insert - 01010 001111 --, therefor.

In column 64, line 51, delete "Y<Be>" and insert - - Y<B3> - -, therefor.

In column 65, line 19, delete "Y<Be>" and insert - - Y<B3> - -, therefor.

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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO.

: 7,006,698

APPLICATION NO. : 10/721.947

ISSUE DATE

: Feb. 28, 2006

INVENTOR(S) : Matthew James Adiletta, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In column 66, line 49, delete "PCIM" and insert - - PCITM - -, therefor.

In column 66, line 55, delete "PCIM" and insert - - PCITM - -, therefor.

In column 67, line 4, delete "PCITM" and insert - - PCITM - -, therefor.

In column 67, line 11, delete "PCIM" and insert - - PCITM - -, therefor.

In column 67, line 42, delete "PCIM" and insert - - PCITM - -, therefor.

In column 68, line 8, delete "PCIM" and insert - - PCITM - -, therefor.

In column 71, line 23, delete "pipeline" and insert - - pipelined - -, therefor.

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